
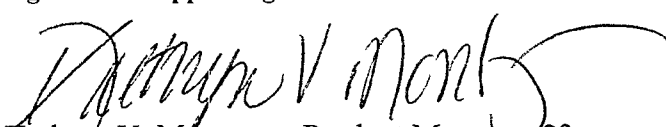


42750-241

5/31/2012

1/15

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave NW Washington D C 20460	EPA Registration Number 42750 241	Date of Issuance MAY 31 2012
NOTICE OF PESTICIDE <u> x </u> Registration <u> </u> Reregistration <small>(under FIFRA as amended)</small>		Term of Issuance Unconditional Name of Pesticide Product Fosamine 41 5% SC	
Name and Address of Registrant (include ZIP Code) Albaugh Inc P O Box 2127 Valdosta GA 31604 2127			
Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number			
<p>On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others</p> <p>This product is registered in accordance with FIFRA sec 3 (c) (7) (A) provided that you</p> <ol style="list-style-type: none"> 1 Submit and/or cite all data required for the registration/ reregistration review of your product when the Agency requires all registrants of similar products to submit data and submit acceptable responses required for reregistration of your product under FIFRA section 4 2 Change the I PA Registration Number to read 42750 241 3 Make the following label change On page 2 delete the word General in the heading and replace with Product 4 On page 3 under Tank Mixes delete the second sentence that begins with Refer to the label and replace with Follow all use directions precautions and restrictions on labels of tank mixed products 			
Signature of Approving Official  Kathryn V. Montague Product Manager 23 Herbicide Branch Registration Division (7505P)		Date MAY 31 2012	

EPA Registration No 42750 241

5 On page 4 under Directions for Use revise the last statement to read FOSAMINE 41 5% must be used only in accordance with the labeling or in supplemental Albaugh inc labeling

6 Under Pine Plantations Preparation Site in the first statement delete is recommended for the and replace with may be applied for

7 On page 4 under Application Information delete the word generally

8 On page 5 under Combinations of Pine and Hardwood Seedlings and Saplings add the following statement Follow all use directions precautions and restrictions on Imazapyr product labels

9 On page 5 under Non crop Sites delete the statement is recommended and replace with may be applied

10 On page 8 under the directions for use with Imazapyr add the following Follow the use directions precautions and restrictions on the Imazapyr label Also add the statement for use with picloram Throughout the remainder of the label delete is recommended and replace with may be applied

11 Under Cut Surface Applications delete is recommended in and replace with may be used for

12 On page 10 in the statement Applying larger droplets fix the typo tf so that the word reads If

13 Submit one (1) copy of the revised final printed label before the product is released for shipment

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA sec 6(e) Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy of the label is enclosed for your records
Enclosure

3/15

FOSAMINE 41.5% SC
Brush Control Agent

Water Soluble Liquid

ACTIVE INGREDIENT	BY WEIGHT
Ammonium salt of fosamine [ethyl hydrogen (aminocarbonyl) phosphonate]	41.5%
OTHER INGREDIENTS	58.5%
TOTAL	100.0%

Contains 4 Lbs Active Ingredient per Gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle (If you do not understand this label find someone to explain it to you in detail)

FIRST AID

IF IN EYES Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present after the first five minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for medical emergencies involving this product.

EPA Reg. No. 42750-xxx

EPA Est. No. xxxxxx xx xxx

Net Contents _____

Manufactured For
Albaugh Inc
Ankeny, IA 50021

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 31 2007
Under the Federal Insecticide
Fungicide and Rodenticide Act
as amended for the pesticide
registered under EPA Reg. No.

42750-241

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Causes (moderate) eye injury (irritation) Avoid contact with eyes or clothing

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

- 1 Long sleeve shirt and long pants
- 2 Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

GENERAL INFORMATION

FOSAMINE 41 5% SC brush control agent is a water soluble liquid to be diluted with water and applied as a foliar spray for control and/or suppression of many woody species.

FOSAMINE 41 5% SC is recommended for use in pine plantations and non crop sites including highway rights of way, industrial sites, railroad rights of way, storage areas, utility and pipeline rights of way.

This product may be applied in pine plantations and non crop sites that contain areas of temporary surface water caused by collection of water between planting beds, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas. DO NOT make applications to natural or man made bodies of water such as lakes, reservoirs, ponds, streams and canals.

FOSAMINE 41 5% SC is non flammable and nonvolatile.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

A FOSAMINE 41 5% SC spray directed to only part of susceptible brush species will provide control of the portion sprayed, resulting in a trimming effect. Treatment with FOSAMINE 41 5% SC generally does not immediately affect deciduous woody plants; they retain normal foliage for the remainder of the growing season. Treated susceptible plants do not produce foliage or grow the following spring. Coniferous species treated with FOSAMINE 41 5% SC generally displays visible symptoms following application.

Effectiveness may be reduced if, following treatment, rainfall occurs on the same day.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank mix partners, and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

TANK MIXES

FOSAMINE 41 5% SC herbicide may be tank mixed with other herbicides and/or adjuvant registered for use in pine plantations and non-crop sites.

Refer to the label of the tank mix partner(s) for any additional use instructions or restrictions.

SPRAY EQUIPMENT

FOSAMINE 41 5% SC may be applied using high volume or low volume ground sprayers as well as aircraft (helicopter only).

Application equipment must be calibrated before making applications of FOSAMINE 41 5% SC.

SPRAY ADJUVANTS

A penetrating type oil-based adjuvant (surfactant or crop oil concentrate) may be used with FOSAMINE 41 5% SC. The adjuvant should be mixed in the spray solution at a minimum concentration of 1/4% by volume (1 quart per 100 gallons of spray solution) or at the manufacturer's recommended dosage.

If foaming is a problem during mixing, an anti-foam agent may be added.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

Do not apply this product through any type of irrigation system

Do not use on food or feed crops

FOSAMINE 41 5% SC should be used only in accordance with recommendations on this label or in supplemental Albaugh Inc labeling

AGRICULTURAL USES

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides It contains requirements for training, decontamination notification and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is

- 1 Coveralls
- 2 Shoe plus socks

PINE PLANTATIONS PREPARATION SITE

FOSAMINE 41 5% SC is recommended for the post harvest (pre plant) control of undesirable pine and hardwood seedlings and saplings and suppression of brush and vines to aid site planting preparation for southern pines and/or genetically improved pines

APPLICATION INFORMATION

Apply as a foliar spray from mid summer to when the target tree pests begin defoliation in late summer or fall Applications of FOSAMINE 41 5% SC may be made by ground or air (helicopter only equipment Use sufficient water to ensure complete coverage of the vegetation, generally 20 to 50 gallons per acre by ground and 10 to 15 gallons per acre by air

USE RATES AND PLANTS CONTROLLED

Pine Seedlings and Saplings

Apply 2 to 4 quarts of FOSAMINE 41 5% SC per acre for the control of seedling and sapling pines when burning is allowed on the site

Apply 4 to 6 quarts per acre of FOSAMINE 41 5% SC to control seedling and sapling pines when burning is not allowed on the site

Use the higher rate when either pine saplings predominate or when high infestations of seedling pines are in the area to be sprayed

Combinations of Pine And Hardwood Seedlings And Saplings

To control a combination of pine and hardwood seedlings and saplings apply a tank mixture of FOSAMINE 41 5% SC at use rates indicated for spraying pine seedlings and saplings plus Imazapyr (4 pound active per gallon) at 8 to 20 ounces per acre This tank mix is recommended for the control of Ash, Blackberry Black gum Black locust Box elder Cherry, Dogwood, Elms (winged slippery) Oaks (red white) Red maple Sassafras and Sourwood

Brush and Vine Suppression

The application of FOSAMINE 41 5% SC plus Imazapyr will also provide suppression of brush and vines such as American beautyberry (French mulberry) Baccharis (groundsel tree) Vaccinium (blueberry) species Wax myrtle (bayberry) and Wild grape

**Suppression a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control*

Do not apply more than 3 gallons of FOSAMINE 41 5% SC per acre per year

NON AGRICULTURAL USES

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries, or greenhouses

Do not enter or allow entry into treated areas until sprays have dried to perform hand tasks

NON CROP SITES

FOSAMINE 41 5% SC is recommended for general weed control as follows uncultivated non agricultural areas (such as airports highway, railroad and utility rights of way, sewage disposal areas) uncultivated agricultural areas (non crop producing, which includes farmyards, fuel storage areas, fence rows, barrier strips) industrial sites (outdoor, such as lumberyards, pipeline and tank farms)

APPLICATION INFORMATION

Make a foliar application of the recommended rate of FOSAMINE 41 5% SC from full leaf expansion in the spring to the development of full canopy coloration in the fall for deciduous species to be controlled

Coniferous species, listed in the Use Rates and Plants Controlled chart below may be treated at anytime during the growing season

LOW AND HIGH VOLUME DIRECTED SPRAYS

Prepare either a low volume or high volume spray solution of FOSAMINE 41 5% SC For the low volume directed spray application do not exceed a spray concentration of 30% by volume For the high volume directed spray application, do not use a spray concentration of less than 1 5% by volume

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the Spray Solution Table Apply a quantity of spray solution which will thoroughly and uniformly cover the target plant foliage (spray to wet for high volume applications) Rate and volume per acre will depend on the plant species the height and density of plant growth as well as the type of application equipment used On tall or dense stands of brush it may be necessary to spray from opposite sides in order to obtain thorough coverage of the foliage Use the higher rate range on stands where difficult to control species are dominant See the Use Rates and Plants Controlled section of the label for use rates and a listing of **difficult to control species

Do not apply more than 6 gallons of FOSAMINE 41 5% SC per acre per year

AERIAL and BROADCAST APPLICATIONS

Prepare a spray solution using 1 1/2 to 3 gallons of FOSAMINE 41 5% SC in 10 to 40 gallons of water (see Spray Solution Table) For broadcast ground applications use this product at the rate of 1 5 to 6 gallons per acre Do not apply more than 6 gallons per acre when using ground equipment For aerial applications use this product at the rate of 1 5 to 3 gallons per acre Do not apply more than 3 gallons of FOSAMINE 41 5% SC per acre when using aerial equipment Use sufficient spray volume to uniformly and thoroughly cover the foliage Use the higher concentrations on stands in which difficult to control species are predominant (see Use Rates and Plants Controlled section for a listing of **difficult to control species) SPRAY SOLUTION TABLE Amount of FOSAMINE 41 5% SC

SPRAY SOLUTION TABLE

Amount of FOSAMINE 41 5% SC

Desired Volume	1 5%	2%	3%	4%	10%	20%	30%
5 Gal	**	**	**	0 8 qt	0 5 gal	1 gal	1 5 gal
10 Gal	0 6 qt	0 8 qt	1 2 qt	1 6 qt	1 gal	2 gal	3 gal
20 Gal	1 2 qt	1 6 qt	0 6 gal	0 8 gal	2 gal	4 gal	6 gal
30 Gal	0 45 gal	0 6 gal	0 9 gal	1 2 gal	3 gal	6 gal	**
40 Gal	0 6 gal	0 8 gal	1 2 gal	1 6 gal	4 gal	**	**
50 Gal	0 75 gal	1 gal	1 5 gal	2 gal	5 gal	**	**
100 Gal	1 5 gal	2 gal	3 gal	4 gal	**	**	**

USE RATES AND PLANTS CONTROLLED

FOSAMINE 41 5% SC effectively controls or suppresses (**difficult to control listings) the following plants when applied at the use rates shown

**Suppression a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control

1 1/2 to 6 gal FOSAMINE 41 5% SC per acre

Alder, red	<i>Alnus rubra</i>
Ash white	<i>Fraxinus Americana</i>
Aspen quaking	<i>Populus tremuloides</i>
Birch	<i>Betula sp</i>
Blackberry	<i>Rubus sp</i>
Blackgum	<i>Nyssa sylvatica</i>
Cherry, black**	<i>Prunus serotina</i>
Cherry, pin	<i>Prunus pensylvanica</i>
Chokecherry, common**	<i>Prunus virginiana</i>
Elm**	<i>Ulmus sp</i>
Fern bracken	<i>Pteridium aquilinum</i>
Hawthorn**	<i>Crataegus sp</i>
Hickory**	<i>Carya sp</i>
Locust black	<i>Robinia pseudoaccacia</i>
Maple bigleaf**	<i>Acer macrophyllum</i>
Maple, red**	<i>Acer rubrum</i>
Maple, vine	<i>Acer circinatum</i>
Oak red	<i>Quercus rubra</i>
Oak, water	<i>Quercus arkansana</i>
Oak white	<i>Quercus alba</i>
Persimmon**	<i>Diospyros virginiana</i>
Pine, loblolly	<i>Pinus taeda</i>
Pine Virginia	<i>Pinus virginiana</i>
Poplar yellow (tulip tree)**	<i>Liriodendron tulipifera</i>
Salmonberry	<i>Rubus spectabilis</i>
Sassafras**	<i>Sassafras sassafras</i>
Sourwood**	<i>Oxydendrum arboretum</i>
Spurge leafy***	<i>Euphorbia esula</i>
Sumac	<i>Rhus sp</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Tallow Chinese	<i>Sapium Sebiferum</i>
Thimbleberry	<i>Rubus parviflorus</i>
Willow**	<i>Salix sp</i>

2 to 6 gal FOSAMINE 41 5% SC per acre

Basswood, American**	<i>Tilia Americana</i>
Bindweed field***	<i>Convolvulus arvensis</i>
Cottonwood, Eastern	<i>Populus deltoids</i>
Elder American	<i>Sambucus canadensis</i>
Elm slippery	<i>Ulmus rubra</i>
Elm winged**	<i>Ulmus alata</i>
Grape wild	<i>Vitis sp</i>
Pine Eastern white	<i>Pinus strobes</i>
Plum wild	<i>Prunus munsoniana</i>
Rose, multiflora	<i>Rosa multiflora</i>
Sycamore	<i>Platanus occidentalis</i>
Tree of heaven	<i>Ailanthus altissima</i>

**Difficult to control or Suppression

Suppression a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control

***Make applications after plants begin to bloom

TANK MIXTURES

FOSAMINE 41 5% SC plus ESCORT XP

FOSAMINE 41 5% SC plus ESCORT XP is recommended for the control of Eastern red cedar and improved control of Ailanthus (tree of heaven) Ash Cherry Elm and Red maple

Apply 1.5 to 3 gallons of FOSAMINE 41 5% SC plus 1 to 2 ounces of ESCORT XP per acre. Apply a quantity of spray solution that will thoroughly and uniformly cover the target brush/trees without causing unnecessary run off (spray to wet). If the site contains difficult to control species (see ** in USE RATES AND PLANTS CONTROLLED section), use the higher rates of both FOSAMINE 41 5% SC and ESCORT XP.

Follow the use directions, precautions and restrictions on the ESCORT XP label.

FOSAMINE 41 5% SC plus imazapyr

FOSAMINE 41 5% SC plus imazapyr herbicide (2 pounds active ingredient per gallon) is recommended for the control of Box elder Hackberry Persimmon Wild pecan and Dogwood and for improved control of Ash Black Cherry Elm Maple Sassafras and Willow.

Apply 1.5 to 3 gallons of FOSAMINE 41 5% SC plus 8 to 20 ounces of imazapyr per acre. Apply a quantity of the spray solution that will thoroughly and uniformly cover the target brush without causing unnecessary run off (spray to wet). If the site contains difficult to control species (see ** in USE RATES AND PLANTS CONTROLLED section) use the higher rates of both FOSAMINE 41 5% SC and imazapyr.

FOSAMINE 41 5% SC plus picloram

FOSAMINE 41 5% SC plus picloram (2 pound active per gallon) herbicide is recommended for the control of Hackberry Persimmon and Walnut for improved control of Cherry Elm Hickory Locust Oak Poplar Sassafras Sumac, and Sweet gum.

Apply 1.5 to 3 gallons of FOSAMINE 41 5% SC plus 1 to 2 pints of picloram per acre. Apply a quantity of the spray solution that will thoroughly and uniformly cover the target brush without causing unnecessary run off (spray to wet). If the site contains difficult to control species (see ** in USE RATES AND PLANTS CONTROLLED section) use the higher rates of both FOSAMINE 41 5% SC and picloram.

SIDE TRIMMING

For control of only a portion of a plant, direct the spray solution to thoroughly cover (spray to wet) only the portion of the plant to be controlled.

Do not apply more than 6 gallons of FOSAMINE 41 5% SC per acre when side trimming.

CUT SURFACE APPLICATIONS

FOSAMINE 41 5% SC is recommended in controlling the re sprouting of cut stumps of the plants listed in the Use Rates and Plants Controlled section. Control of re sprouting in plants listed as difficult to control may not be as effective.

FOSAMINE 41 5% SC may either be used undiluted or mixed with water. Use the method that is best suited for the particular application equipment. When mixing with water a ratio of no less than 1 part FOSAMINE 41 5% SC to 1 part water on a volume basis must be used. Apply the undiluted or mixed solution to wet the area adjacent to the cambium and bark around the entire circumference and the sides of the cut stumps. The sides of the stumps should be wet down to the root collar area.

Apply with appropriate application equipment using low spray pressure. Applications can be made any time of the year, except during periods of heavy sap flow in the spring. Applications should be made soon after cutting, before the stump surface forms a layer of callous tissue (hardens off).

To prevent freezing of the spray solution, add ethylene glycol (commercial antifreeze) to the water used in preparing the spray solution. Add the antifreeze according to the manufacturer's label for preventing freezing of water at the lowest expected ambient temperature. FOSAMINE 41 5% SC will freeze at 11°F. A 1:1 aqueous dilution of FOSAMINE 41 5% SC will freeze at 21°F.

A spray pattern indicator may be used in the spray solution to facilitate application. The user should check the compatibility of the spray indicator with the spray solution prior to using large quantities.

ADDITIONAL USE INSTRUCTIONS PINE PLANTATIONS AND NON CROP SITES

MIXING INSTRUCTIONS

- 1 Fill spray tank 1/2 full of water
- 2 With the agitator running, add the desired amount of FOSAMINE 41 5% SC
- 3 If using a tank mix partner, add the recommended amount. Follow the use precautions and directions on the tank mix partner label.
- 4 Add spray adjuvant as last ingredient prior to filling the spray tank with water.
- 5 Agitate the spray solution thoroughly.

After FOSAMINE 41 5% SC has been thoroughly mixed in the spray tank, agitation of the spray solution is not required.

SPRAYER CLEAN UP

Thoroughly clean all mixing and spray equipment immediately following applications of FOSAMINE 41 5% SC. Flush tank, pump, hoses and boom with several changes of water after removing the nozzle tips and screens (clean these parts separately).

Dispose of the rinsate on a labeled site or at an approved waste disposal facility.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making applications.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage.

APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS¹

See Wind Temperature and Humidity and Temperature Inversions sections of this label

CONTROLLING DROPLET SIZE GENERAL TECHNIQUES

- Volume Use high flow rate nozzles to apply the highest practical spray volume Nozzles with higher rated flows produce larger droplets
- Pressure Use the lower spray pressures recommended for the nozzle Higher pressure reduces droplet size and does not improve canopy penetration WHEN HIGHER FLOW RATES ARE NEEDED USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE
- Nozzle Type Use a nozzle type that is designed for the intended application With most nozzle types, narrower spray angles produce larger droplets Consider using low drift nozzles

CONTROLLING DROPLET SIZE AIRCRAFT (HELICOPTER)

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage
- Nozzle Orientation Orienting nozzles so that the spray is emitted backwards parallel to the airstream will produce larger droplets than other orientations
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types

BOOM LENGTH AND HEIGHT

- Boom Length (helicopter) For helicopters use a boom length and position that prevents droplets from entering the rotor vortices
- Boom Height (helicopter) Application more than 10 feet above the canopy increases the potential for spray drift
- Boom Height (ground) Setting the boom at the lowest height which provides uniform coverage reduces the exposure of droplets to evaporation and wind The boom should remain level with the crop and have minimal bounce

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph However many factors including droplet size and equipment type determine drift potential at any given wind speed AVOID GUSTY OR WINDLESS CONDITIONS

Note Local terrain can influence wind patterns Every applicator should be familiar with local wind patterns and how they affect spray drift

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions set up equipment to produce larger droplets to reduce effects of evaporation

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud Temperature inversions are characterized by increasing temperature with altitude

and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

IMPORTANT PRECAUTIONS PINE PLANTATIONS AND NON CROP SITES

- Cutting of treated stems of brush before they are completely dead may result in sprouting
- Do not use for the control of woody plants on lawns, walks, driveways, tennis courts or similar areas
- Drift or spray mist contact with desirable trees, shrubs, or other plants may result in injury
- Not registered for sale or use in California or Arizona

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE Do not store below 10°F. Store product in original container only. Store in a cool, dry place.

PESTICIDE DISPOSAL Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING Refer to the Net Contents section of this product's labeling for the applicable Nonrefillable Container or Refillable Container designation.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons)

Nonrefillable container Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons)

Nonrefillable container Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration Do not burn, unless allowed by state and local ordinances

For Metal Containers offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Nonrefillable Rigid Plastic and Metal Containers e.g. Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped Rolled or Turned Upside Down)

Nonrefillable container Do not reuse or refill this container Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container The nozzle manufacturer generally provides instructions for the appropriate spray pressure spray duration and/or spray volume If the manufacturer's instructions are not available pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume Drain, pour or pump rinsate into application equipment or rinsate collection system Repeat this pressure rinsing procedure two more times Then for Plastic Containers offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration For Metal Containers offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities

All Refillable Containers

Refillable container

Refilling Container Refill this container with FOSAMINE 41.5% SC containing ammonium salt of fosamine only Do not reuse this container for any other purpose Cleaning before refilling is the responsibility of the refiller Prior to refilling, inspect carefully for damage such as cracks punctures abrasions worn out threads and closure devices If damage is found do not use container contact Albaugh Inc at the number below for instructions Check for leaks after refilling and before transporting If leaks are found, do not reuse or transport container contact Albaugh, Inc at the number below for instructions

Disposing of Container Do not reuse this container for any other purpose other than refilling (see preceding) Cleaning the container before final disposal is the responsibility of the person disposing of the container To clean the container before final disposal, use the following pressure rinsing procedure Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container The nozzle manufacturer generally provides instructions for the appropriate spray pressure spray duration and/or spray volume If the manufacturer's instructions are not available pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume Drain, pour or pump rinsate into application equipment or rinsate collection system Repeat this pressure rinsing procedure two more times Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration Do not burn, unless allowed by state and local ordinances For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete or in the event of a major spill, fire or other emergency contact Albaugh, Inc. at 1 800 441 3637 day or night.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional fanning techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Albaugh, Inc. These risks can cause ineffectiveness of the product, crop injury, or injury to non target crops or plants.

Albaugh, Inc. does not agree to be an insurer of these risks. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

Albaugh, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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